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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,278	11/13/2003	Yutaka Igarashi	62758-064	5631
7590 03/20/2006 MCDERMOTT, WILL & EMERY 600 13th Street, N.W.			EXAMINER	
			NGUYEN, DUC M	
Washington, DC 20005-3096			. ART UNIT	PAPER NUMBER
_			2600	
			DATE MAILED: 03/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

						
	Application No.	Applicant(s)				
Office Action Summany	10/706,278	IGARASHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duc M. Nguyen	2685				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	-· action is non-final.					
· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-19 are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ate atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-4, 9, 12, 14, 16, 18, 19, drawn to a mixer circuit, classified in class 455, subclass 313+, class 327, subclass 103 and class 329, subclasses 315-371.
 - II. Claims 5-8, 10, 13, 15, 17, drawn to a mixer, classified in class 455, subclass 313+, class 327, subclass 103 and class 329, subclasses 315-371.
- Inventions are distinct, each from the other because of the following reasons:

 Inventions I and II are related as subcombinations disclosed as usable together
 in a single combination. The subcombinations are distinct if they do not overlap in
 scope and are not obvious variants, and if it is shown that at least one subcombination
 is separately usable. In the instant case, subcombination I has separate utility such as
 a single V/I converter (Figs. 1, 9) and in that the two outputs of the current divider differs
 from each other, while subcombination II has separate utility such as two V/I converters
 and an attenuator (Figs. 4 and 10). See MPEP § 806.05(d).
- 3. Because these inventions are independent or distinct for the reasons given above and that the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc M. Nguyen whose telephone number is 571-272-7893. The examiner can normally be reached on Monday-Friday (9:00AM 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Duc Nguyer

Mar 8, 2006